

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("6417060").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 09:47
S2	0	S1 and (semiconductor or dielectric\$)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 10:05
S3	1	("5162243").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 12:19
S4	1	("20060180829").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 15:01
S5	1	S4 and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 10:15
S6	1	S3 and tunnel\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 10:32
S7	19	(257/E21.353).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 10:47
S8	77	(257/E29.339).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 10:47
S9	237	gap adj diode	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:25
S10	4156	tunnel\$3 adj diode	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:40
S11	122	S10 and (emitter with collector with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:47
S12	1	("6563185").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 13:27
S13	0	S12 and (emitter with collector with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:27
S14	1	("6756649").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 13:28
S15	0	S14 and (emitter with collector with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:29
S16	1	S14 and semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 13:34
S17	1	2003GB-0022116.AP, PRAI.	DERWENT	OR	ON	2007/09/20 13:36
S18	80	S11 and (gap or vacuum)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:05
S19	1	("6489704").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 14:05

S20	1	S19 and (gap or vacuum)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:06
S21	1	S20 and collector	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:11
S22	1	S21 and tunnel\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:13
S23	1	S19 and tunnel\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 14:14
S24	1	S4 and emitter with semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:02
S25	1	S4 and (emitter with (band adj gap))	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:28
S27	1	S4 and (cryogenic or cool \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:32
S28	5	tunnel\$3 adj diode with cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 15:40
S29	58	("3173032"   "3267308"   "3328611"   "3515908"   "3843986"   "3890161"   "3899696"   "3983423"   "4040903"   "4047093"   "4151438"   "4188571"   "4266179"   "4280074"   "4281280"   "4298768"   "4303845"   "4323808"   "4346330"   "4368416"   "4373142"   "4528417"   "4667126"   "4700099"   "4755350"   "4771201"   "4927599"   "5028835"   "5327038"   "5459367"   "5492570"   "5541464"   "5572042"   "5578886"   "5623119"   "5637946"   "5646474"   "5722242"   "5780954"   "5841219"   "5955772"   "5973259"   "5981071"   "5994638"   "6020671"   "6037697").PN. OR ("6489704").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:08
S30	1	("20040050415").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 17:28
S31	1	("5981071").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/20 17:28
S32	1	S31 and emitter and collector	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/20 17:28
S34	13613	collector with temperature	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:13

S35	140	collector with cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:11
S36	36	S34 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:12
S38	58	( "3173032"   "3267308"   "3328611"   "3515908"   "3843986"   "3890161"   "3899696"   "3983423"   "4040903"   "4047093"   "4151438"   "4188571"   "4266179"   "4280074"   "4281280"   "4298768"   "4303845"   "4323808"   "4346330"   "4368416"   "4373142"   "4528417"   "4667126"   "4700099"   "4755350"   "4771201"   "4927599"   "5028835"   "5327038"   "5459367"   "5492570"   "5541464"   "5572042"   "5578886"   "5623119"   "5637946"   "5646474"   "5722242"   "5780954"   "5841219"   "5955772"   "5973259"   "5981071"   "5994638"   "6020671"   "6037697").PN. OR ("6489704").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:13
S39	4	S38 and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:15
S40	19	(thermo\$electric adj converter) and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/21 08:16
S41	1	("20070057277").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/21 13:41
S42	1	("20060180829").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 10:18
S43	1	S42 and emitter	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 10:18
S44	1	S42 and (emitter with band)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 10:26
S45	1	("6489704").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 11:00
S46	1	S45 and (K or temperature)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 11:00
S47	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:22
S48	1	S47 and (emitter with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:22

S49	1	("20040050415").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:38
S50	1	S49 and ((collector or emitter) with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:39
S51	1	S49 and (K or temperature)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:42
S52	0	S49 and cryogenic	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:46
S53	1	("4373142").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:49
S54	0	S53 and ((collector or emitter) with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:49
S55	1	("20040029341").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 12:56
S56	0	S55 and ((collector or emitter) with semiconductor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:56
S57	0	S55 and semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:56
S58	0	S47 and (emitter with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:57
S59	1	S49 and ((collector or emitter) with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:58
S60	1	S49 and (low or cryogenic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:58
S61	1	S53 and ((collector or emitter) with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 12:59
S62	0	S55 and ((collector or emitter) with (dielectric or insulat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:03
S63	3579	(collector with (semi \$conductor or dielectric or insulat\$3)) and (emitter with (semi \$conductor or dielectric or insulat\$3)) and (gap or vacuum)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:18
S64	627	(collector with (semi \$conductor or dielectric or insulat\$3)) and (emitter with (semi \$conductor or dielectric or insulat\$3)) and ((gap or vacuum) with emitter with collector)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:18

S65	114	(collector with (semi \$conductor or dielectric or insulat\$3) with metal) and (emitter with (semi \$conductor or dielectric or insulat\$3) with metal) and ((gap or vacuum) with emitter with collector)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:19
S66	70	S65 and @ay <= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:19
S67	1	("6396191").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/11 13:27
S68	1	S67 and (vacuum or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:27
S69	1	S67 and (vacuum or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:28
S70	140	(collector with (semi \$conductor or dielectric or insulat\$3)) and (emitter with (semi \$conductor or dielectric or insulat\$3)) and ((thermal or thermionic) with converter)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:45
S71	84	S70 and @ay <= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/11 13:46
S72	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/12 08:10
S73	1	S72 and "47"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/12 08:10
S74	80	(thermionic or thermal) with converter and cryogenic and @ay <= "2003"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/12 08:19
S75	1	("5018359").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/12 08:43
S76	1	("20060180829").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 11:10
S77	1	("6064137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 11:28
S78	1	S77 and (heat adj pump)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 11:28
S79	1	S77 and converter	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 11:31
S80	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 12:37
S81	0	S80 and (gap or distance of separat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 12:37

S82	1	S77 and (gap or distance of separat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 12:38
S83	1	("6417060").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/14 12:54
S84	1	S83 and distance	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/14 12:54
S85	1	("6064137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/07/16 16:34
S86	1	S85 and distance	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/16 16:34
S87	1	S85 and emission	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/16 16:48
S88	3	((("6064137") or ("4280074") or ("6417060")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/18 14:24
S89	1	("20020171078").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/18 14:26
S90	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/18 16:25
S91	1	S90 and (cesium or cesiated)	US-PGPUB; USPAT; USOCR	OR	ON	2008/11/18 16:25
S92	4	((("6084173") or ("5777427") or ("5713775") or ("5986390")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/13 12:42
S93	14	("5651838").PN. OR ("6084173").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/13 14:07
S94	48	(("20010046749"   "20020166839"   "20020170172"   "20030033818"   "20030042819"   "20030068431"   "20030184188"   "20040029341"   "20040031514"   "20040050415"   "3169200"   "3702408"   "4039352"   "4492809"   "4624865"   "4667126"   "4755350"   "5028835"   "5219516"   "5492570"   "5541464"   "5637946"   "5675972"   "5973259"   "5994638"   "6037697"   "6064137"   "6084173"   "6100621"   "6229083"   "6232546"   "6281514"   "6294858"   "6384312"   "6396191"   "6407477"   "6417060"   "6467275"	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/13 14:08

		"6489704"   "6494048"   "6495843"   "6509669"   "6531703"   "6608250"   "6625990"   "6651760"   "6720704").PN. OR ("7498507").URPN.				
S95	1	("4280074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/13 15:25
S96	1	S95 and (work adj function)	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/13 15:26

**4/ 13/ 2009 4:14:44 PM**

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